



A.D. 1864, 30th SEPTEMBER. N° 2409.

SPECIFICATION

OF

CHARLES GODFREY GUMPEL.

TRUSSES, &c.

LONDON:

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(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Charles Godfrey Gumpel at the Office of the Commissioners of Patents, with his Petition, on the 30th September 1864.

I, CHARLES GODFREY GUMPEL, of Leicester Square, in the County of Middlesex, Anatomical Mechanist, do hereby declare the nature of the said Invention for “**IMPROVEMENTS IN ANATOMICAL OR SURGICAL APPLIANCES FOR THE SUPPORT OF PARTS OF THE HUMAN BODY,**” to be as follows :—

My Invention relates to trusses or bandages used to support the abdomen and other parts of the body in cases of hernia or other disease or local weakness, and consists of two plates of metal or other suitable material, adapted to the form or forms of the parts to which they are intended to be applied (such plates being padded and covered in the usual manner) connected by two springs passing over the hips, one on each side of the body, such springs being fastened to the plates by means of straps and studs, slides, hinges, or universal joints. By the springs being thus passed over the hips instead of round them, as usual, they are caused to act unitedly in supporting the abdomen, to which one of the plates is applied, while at the same time exerting a gentle pressure on the sacrum or lower part of the spine, to which the other plate is applied. The supporting action of each spring is thus produced in a direction opposite to that in which it is the natural tendency of the hernia to descend, or the abdomen to sink or yield, whereby a spring of less power than usual may be employed. For a case of single hernia a single spring may be employed passing over the hip on the same side as the hernia,

Gumpel's Improvements in Trusses.

with a pad for the seat of the hernia and another pad for the sacrum, such pads being respectively either permanently fixed to the spring or fastened by a slide, a hinge, or an universal joint. The single spring is fastened to the body of the wearer by means of a band or strap round the waist, one end of which band or strap is fastened to the spring at the back near the waist, and 5 the other end either on the pad resting on the hernial opening or on the spring in front near the waist. For double hernia two pads are united in front, either permanently or by an adjusting slide, and the two springs passing over the hips fastened thereto. In some cases I combine with the truss or bandage above described, as applied to support the abdomen, a padded metal 10 stem or stems, plate or plates, extending from the sacral plate upwards along the spine to or nearly to the shoulder blades, and fasten the same by means of a belt or band round the chest, or if necessary over or round the shoulder, or both, whereby a support is obtained for the breast, the chest, and the spine. 15

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